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- (71) Applicant (*for all designated States except US*): EU-
ROPLASMA [BE/BE]; De Bruwaan 5D, B-9700
OUDENAARDE (BE).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): PAUWELS, Marc
[BE/BE]; Zwijnaardsesteenweg 176, B-9000 GENT (BE).
VANLANDEGHEM, Anthony [BE/BE]; Wolvenstraat
29, B-9700 OUDENAARDE (BE). PALMERS, Johan
[BE/BE]; Rue Vertbreucq 13, B-7750 AMOUGIES (BE).
- (74) Agents: OSTYN, Frans et al.; K.O.B. N.V., President
Kennedypark 31C, B-8500 KORTRIJK (BE).

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(54) Title: METHOD FOR PROVIDING A COATING ON THE SURFACES OF A PRODUCT WITH AN OPEN CELL STRUCTURE THROUGHOUT ITS STRUCTURE AND USE OF SUCH A METHOD

(57) Abstract: The invention relates on the one hand to a method for providing a coating on the surfaces of a product with an open cell structure throughout its structure, in which said coating is provided by means of a plasma polymerisation process. The foam have to be prepared for the plasma polymerisation processes in respect to the specific process. Polymerisation is performed inside the open and semi-open cell structures in a qualitative and homogenous way. On the other hand, the invention relates to the use of a method as described above as a hydrophobe, oleophobe, flame retardant and/or barrier coating on the surfaces of an open cell polymer throughout its polymer structure.

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